



# 2001 LONG-TERM STEWARDSHIP WORKSHOP

---

POST-UMTRA  
A CASE STUDY IN PLANNING  
(AND A SONG)

# In The Beginning, There Was UMTRA

- Active in Colorado from 1981-1998
- Cleaned up 9 uranium mill sites.
- Disposed of 15 million cubic yards of tailings.



# In the Beginning, There Was UMTRA

- Cleaned up over 5000 "vicinity properties".



# In The Beginning, There Was UMTRA

- This is a typical UMTRA disposal cell.

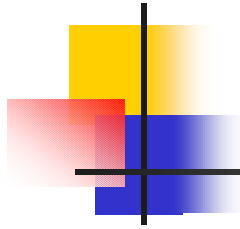




# Contamination Left Behind

---

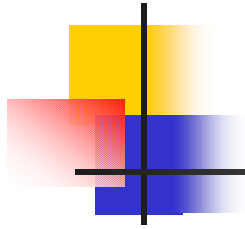
- Approximately 500,000 cubic yards of tailings were not cleaned up by the program.
  - Supplemental Standards
  - Owner Refusals
  - Shielded / Missed Deposits



# The Plan

---

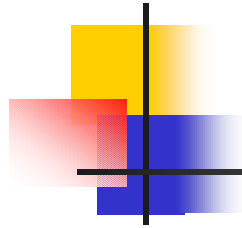
- DOE's Plan was to go home, leaving the problem with the locals.
- CDPHE created a vision of a "post-UMTRA" program.
  - All parties that had a stake in the outcome had a role in the program.
    - It took several years to have everyone accept their role.
    - It took both state and federal legislation to authorize these roles.
  - Utilized "existing systems" to the maximum extent.



# The Program

---

- DOE provides a disposal location and funds to operate it.
- The state provides funds to get the material to the disposal location, and technical expertise in managing the material.
- The state and locals cooperate on a survey program that utilizes existing building permit system.



# The Program

---

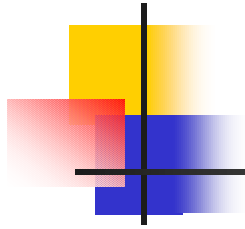
- Deed restrictions on the mill sites, due to the continued presence of contaminated groundwater.
- Engineering controls (cap) maintenance on disposal cells. (DOE LTSM Program)
- No LUCs on vicinity properties.



# The Program

- The locals excavate the material, and provide a temporary storage location.





# Why It Works

---

- Educated public and local government.
- Adequate time to plan.
- Adequate funding to implement.
- Ease of operation
  - Clear roles
  - Signed agreements
  - Use of existing processes



# Potential Problems on the Horizon

---

- Institutional Memory (continuity)
  - Local governments
  - State legislature
  - State (and federal) government

# POST-UMTRA PLANNING SUMMARY OF MAJOR POINTS

---

- Start as early as possible.

It takes time to build a workable system and gain consensus approval.



- Be practical. Don't devise an elaborate system that looks great on paper, but that nobody can/will implement.

# POST-UMTRA PLANNING SUMMARY OF MAJOR POINTS

---

- Be inclusive. Make sure all stakeholders, especially those that will have responsibilities, are involved.
- Use established systems such as building permits and utility locators if possible (don't reinvent the wheel)

